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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/054,162	01/18/2002	Siu Choon Ng	4810-62169	5351
7590 04/29/2005		EXAMINER		
KLARQUIST SPARKMAN, LLP			THERKORN, ERNEST G	
One World Trac	de Center			
Suite 1600			ART UNIT	PAPER NUMBER
121 S. W. Salmon Street			1723	
Portland, OR 97204			DATE MAILED: 04/29/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

			1
	Application No.	Applicant(s)	
	10/054,162	NG ET AL.	
Office Action Summary	Examiner	Art Unit	
	Ernest G. Therkorn	1723	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence a	ddress
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONE	nely filed s will be considered time the mailing date of this o	ily. communication.
Status	•		
 Responsive to communication(s) filed on <u>17 F</u> This action is FINAL. Since this application is in condition for alloware closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro		e merits is
Disposition of Claims			
4)⊠ Claim(s) <u>35-37,45 and 48-54</u> is/are pending in 4a) Of the above claim(s) is/are withdrays 5)□ Claim(s) is/are allowed. 6)⊠ Claim(s) <u>35-37, 45 and 48-54</u> is/are rejected. 7)□ Claim(s) is/are objected to. 8)□ Claim(s) are subject to restriction and/or	wn from consideration.		
Application Papers			·
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 C	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National	Stage
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	D-152)

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 35-37, 45, and 48-54 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lincoln (U.S. Patent No. 5,324,750) in view of Ng (U.S. Patent No. 6,017,458) and either Armstrong (Anal. Chem. 1990, 62, 1610-1615) or Hargitai (Journal of Chromatography, 628 (1993), pages 11-22). At best, the claims differ from Lincoln (U.S. Patent No. 5,324,750) in the clarity of reciting a saccharide that is fully functionalized and a moiety that is able to bind to a support. Armstrong (Anal. Chem. 1990, 62, 1610-1615) (page 1610, column 2, line 15-page 1611, column 1, line 8 and the paragraph under "Results and Discussion" on page 1611, column 2) discloses it is desirable to maximize the functionalization of cyclodextrin because that increases its ability to resolve enantiomers under normal phase conditions. Hargital (Journal of Chromatography, 628 (1993), pages 11-22) (Abstract and page 22, lines 6-11) discloses that maximizing functionalization was the most important factor for enantioselectivity. Ng (U.S. Patent No. 6,017,458) (column 2, lines 10-19; column 2, line 60-column 3, line 6; and column 3, lines 41-51) discloses forming a silane derivative results in a product that is universally applicable to HPLC, LC, TLC, and CLE and permits immobilization on a support material surface. It would have been obvious to fully fuctionalize the cyclodextrin in Lincoln (U.S. Patent No. 5,324,750) either because Armstrong (Anal. Chem. 1990, 62, 1610-1615) (page 1610, column 2, line 15-page

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1611, column 1, line 8 and the paragraph under "Results and Discussion" on page 1611, column 2) discloses it is desirable to maximize the functionalization of cyclodextrin because that increases its ability to resolve enantiomers under normal phase conditions or because Hargitai (Journal of Chromatography, 628 (1993), pages 11-22) (Abstract and page 22, lines 6-11) discloses that maximizing functionalization was the most important factor for enantioselectivity. It would have been obvious to form a silane derivative for binding in Lincoln (U.S. Patent No. 5,324,750) because Ng (U.S. Patent No. 6,017,458) (column 2, lines 10-19; column 2, line 60-column 3, line 6; and column 3, lines 41-51) discloses forming a silane derivative results in a product that is universally applicable to HPLC, LC, TLC, and CLE and permits immobilization on a support material surface.

The remarks urge that there is no reasonable expectation of success combining Lincoln (U.S. Patent No. 5,324,750) and Ng (U.S. Patent No. 6,017,458) because Lincoln (U.S. Patent No. 5,324,750) is limited to a particular type of linker. However, Lincoln (U.S. Patent No. 5,324,750) discloses linking to a support on column 19, line 34-column 20, line 24. The only requirement of Lincoln (U.S. Patent No. 5,324,750)'s column 20, line 6 linker is that it is suitable. As such, there is a reasonable expectation of success of using Ng (U.S. Patent No. 6,017,458)'s linker in Lincoln (U.S. Patent No. 5,324,750).

The remarks urge that Ng (U.S. Patent No. 6,017,458) (column 2, lines 10-19; column 2, line 60-column 3, line 6; and column 3, lines 41-51) does not disclose forming a silane derivative results in a product that is universally applicable to HPLC, LC, TLC,

and CLE and permits immobilization on a support material surface. However, Ng (U.S.

Patent No. 6,017,458) (column 2, lines 10-19) discloses that his linkages are universally applicable to HPLC, LC, TLC, and CLE. A fair reading of Ng (U.S. Patent No.

6,017,458) (column 2, line 60-column 3, line 6 and column 3, lines 41-51) indicates that

those linkages are formed with silanes. As such, Ng (U.S. Patent No. 6,017,458)

(column 2, lines 10-19; column 2, line 60-column 3, line 6; and column 3, lines 41-51)

discloses forming a silane derivative results in a product that is universally applicable to

HPLC, LC, TLC, and CLE and permits immobilization on a support material surface.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication should be directed to E. Therkorn at telephone number (571) 272-1149. The official fax number is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ernest G. Therkorn Primary Examiner Art Unit 1723

and other

EGT April 27, 2005